KARNATAKA TEST HOUSE PVT LTD.

MATERIAL TESTING LABORATORY

NABL Accredited Laboratory as per ISO/IEC 17025

NABL Accredited Lab Certificate No.T-0501

Report No. : KTH/C.AGG/1968-3327/2013-2014 **Date: 18.12.2013**

TEST REPORT ON AGGREGATE
(Coarse Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Providing cement concrete to main roads of santosh nagara in ward no 13, in shettyhalli sub-division.

Name of Contractor* : Mr. B.Umesh, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 14.12.2013.

Technical Reference : IS: 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Coarse Aggregate - 40mm & down size

Sl. No.	Sieve size mm	% Passing	IS : 383-1970 Stipulations		Remarks
			Single Size	Graded Size	
1	63	100	100	100	Sample does not confirms to IS: Stipulation of 40mm size Aggregate
2	40	62.1	85 to 100	95 to 100	
3	20	5.3	0 to 20	30 to 70	
4	12.5	0.7	0 to 20	-	
5	10	-	0 to 5	10 to 35	
6	4.75	-	-	0 to 5	

Sl. No.	Test Conducted	Identification mm	Results	IS : 383 – 1970 Stipulations
1	Flakiness Index (%)	40	12.47	Not specified
2	Elongation Index (%)	40	15.69	Not specified
3	Impact Value (%)	40	24.31	Shall not be more than 45% for Concrete and 30% for Wearing surfaces, such as runways, roads and pavements.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

AE 13

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Report No. : KTH/F.AGG/1968-3328/2013-2014 **Date: 18.12.2013**

TEST REPORT ON AGGREGATE
(Fine Aggregate)

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project* : Providing cement concrete to main roads of santosh nagara in ward no 13, In shettyhalli sub-division.

Name of Contractor* : Mr. B.Umesh, Bangalore.

Source of Sample : Supplied by the Customer.

Sample Received on : 14.12.2013.

Technical Reference : IS: 2386 Part I to VIII– 1963 (Reaffirmed-2002), IS : 383 – 1970.

Sieve Analysis of Fine Aggregate (River Sand)

Sl. No.	Sieve size mm	% Passing	IS : 383 – 1970 Specification				Remarks
			% passing for Zone I	% passing for Zone II	% passing for Zone III	% Passing for Zone IV	
1	10	100	100	100	100	100	Falls in Zone –I as per table 4 of IS-383 – 1970.
2	4.75	95.4	90 – 100	90 – 100	90 – 100	95 - 100	
3	2.36	90.6	60 – 95	75 – 100	85 – 100	95 - 100	
4	1.18	58.6	30 – 70	55 – 90	75 – 100	90 - 100	
5	0.600	32.7	15 – 34	35 – 59	60 – 79	80 - 100	
6	0.300	6.9	5 – 20	8 – 30	12 – 40	15 to 50	
7	0.150	0.9	0 – 10	0 – 10	0 – 10	0 to 15	

Sl. No.	Test Conducted	Results	IS : 383 – 1970 Stipulations
1.	Silt Content (%)	5.83	-

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C)
TECHNICAL MANAGER

AE3

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NABL Accredited Lab Certificate No.T-0901

Report No. : KTH/CEMENT/1968-3329/2013-2014 **Date: 23.12.2013**

PHYSICAL TEST REPORT ON CEMENT

Interim 3 & 7 days

Name of the Customer* : **The Assistant Executive Engineer,**
Shettyhalli Sub Division,
BBMP Bangalore.

Name of the Project* : Providing cement concrete to main roads of santosh nagara in ward no 13, in shettyhalli sub-division.

Name of Contractor* : Mr. B.Umesh, Bangalore.

Source of Sample : Supplied by the Customer.

Type of cement* : Ordinary Portland Cement (OPC)

Brand of cement* : Priya Gold 53 Grade.

Sample Received on : 14.12.2013.

Period of test : 16.12.2013 to 23.12.2013.

Technical Reference : IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 12269-1987.

Sl. No.	Test Conducted	Results	IS : 12269-1987 Stipulation	Remarks
1	Normal consistency	30.0%	Not specified	-
2	Initial setting time	181 minutes	Shall not be less than 30 minutes	P
3	Final setting time	254 minutes	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) a. 72 ± 1h (3 days) b.168 ± 2h (7 days) c. 672 ± 4h (28 days)	 28.36 MPa 39.81 MPa T.T.C	 Shall not be less than 27.0 MPa Shall not be less than 37.0 MPa Shall not be less than 53.0 MPa	 P P -
5	Fineness (By Blaine's air permeability method)	314.80 m^2/kg	Shall not be less than 225m 2/kg	P
6	Soundness (Le-chatlier's method)	1.00 mm	Shall not be more than 10 mm	P

P: Passes IS requirement F: Fails IS requirement T.T.C: Test To be Conducted.

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA.C.)
TECHNICAL MANAGER

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NABL Accredited Lab Certificate No.T-0901

Report No.: KTH/ST/1968-3330/2013-2014 **Date: 19.12.2013**

TEST REPORT ON STEEL BARS

Name of the Customer*	:	**The Assistant Executive Engineer,** Shettyhalli Sub Division, BBMP, Dasarahalli Zone.
Name of the Project*	:	Providing cement concrete to main roads of santosh nagara in ward no 13, in shettyhalli sub-division.
Name of Contractor*	:	Mr. B.Umesh, Bangalore.
Source of Sample	:	Supplied by the Customer.
Sample Received on	:	14.12.2013.
Nature of Sample*	:	Reinforcement steel – 10mm.
Technical Reference	:	Tensile IS: 1786 – 2008 & IS: 1608–1995 (Reaffirmed–2000) Bend & Re-bend IS: 1786 – 2008 & IS: 1599 - 1985 (Reaffirmed–2000)
Grade of Steel*	:	Fe-500.

TENSILE TEST :

Dia (mm)	**10**	**Limits as per IS : 1786-2008, Gr. Fe 500**
Weight / unit length (kg/m)	0.597	10mm – 0.574 Min
Yield Stress (N/mm^2)	519.34	500 Min
Tensile Strength (N/mm^2)	620.48	10% More than actual 0.2% proof stress but not less than 545 N/mm^2
% Elongation (on 5.65 $\sqrt{A}$G.L)	20.3	12.0 Min.

BEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	10	4 dia	No cracks observed. Passes the test.

REBEND TEST:

Sl. No.	*Dia (mm)*	*Mandrel diameter*	*Observations*
1.	10	5 dia	No cracks observed. Passes the test

* As furnished by the Customer

For **KARNATAKA TEST HOUSE PVT. LTD.**

(SREENIVASA C.)
TECHNICAL MANAGER

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Report No. : KTH/CT/1968-3331/2013-2014 **Date: 17.12.2013**

TEST REPORT ON CONCRETE CUBES

To,

The Assistant Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

Name of the Project*: - Providing cement concrete to main roads of santosh nagara in ward no 13 in shettyhalli sub-division.

Name of the Contractor* : Mr. B.Umesh, Bangalore.

Sample Received on: 14.12.2013.

Compressive Strength test as per IS: 516-1959 (Reaffirmed 1999) has been conducted on the concrete cube specimens, supplied by the Customer and the results are tabulated here below:

Dimension of Specimen: 150mmx150mmx150mm

Sl. No	Cubes pertaining to the concrete cast at*(Details of structural member identification)	Grade of Concrete*	Date of casting*	Date of Testing	Age of Concrete on the date of test**	Contact area (mm^2)	Weight of Specimen (Kg)	Load in KN	Compressive Strength in N/mm^2
1.	Bedding Concrete	M_{20}	10.12.2013	17.12.2013	7 days	22500	8.230	370	16.44
2.		"	"	"	"	"	8.110	357	15.87
3.		"	"	"	"	"	8.070	338	15.02

1 N/Sq.mm = 10Kg/Sq.cm.(Approx.)
*As Furnished by the Customer
**Based on the data furnished by the Customer
Note: A minimum of three cube specimens shall be supplied for testing as per IS:516-1959

for ***KARNATAKA TEST HOUSE PVT. LTD.***

KARNATAKA TEST HOUSE PVT. LTD. BANGALORE-54

(SREENIVASA.C.)
TECHNICAL MANAGER

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